**Summary**

# EASTERN WASHINGTON STORMWATER MANAGEMENT CHARTERING MEETING

**June 5, 2001**
**Moses Lake Convention Center**
**Pat Serie, Facilitator**

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## Executive Summary

A day long chartering meeting was held with over 70 attendees representing 17 cities, 11 counties, and five state and federal agencies with interests in stormwater management in Eastern Washington. The purpose of this meeting was to finalize a process for managing the creation of a Stormwater Management Manual and a Model Municipal Stormwater Program for Eastern Washington.

The tasks completed at this meeting included:

- Discuss and reach agreement on project objectives regarding the manual and model program
- Reach agreement on an organizational model to oversee the development of the manual and model program that represents a broad cross section of Eastern Washington governments
- Form and charter steering committee
- Identify members for the steering committee
- Identify volunteer members for manual and model program steering subcommittees
- Identify technical and policy issues for manual and model program and strategize on how to solve them.

The project objectives are to develop two products. The Eastern Washington Stormwater Manual will be a technical resource that will provide commonly accepted standards for the management of stormwater for Eastern Washington. The Manual will address and integrate stormwater management needs under federal and state laws and regulations (Clean Water Act, Safe Drinking Water Act, Endangered Species Act, State Water Pollution Control Act, Hydraulic Project Approval). The manual will have a range of requirements that will vary depending on the specific conditions of the community including topography, rainfall, proximity to surface or groundwater, and soil conditions.

The Model Municipal Stormwater Program for Eastern Washington will describe a regionally and environmentally appropriate stormwater program that satisfies new federal stormwater regulations adopted by the Environmental Protection Agency. These regulations, adopted as part of the federal Clean Water Act, are commonly called 'NPDES Phase II' stormwater regulations. The Model Program will also address other federal and state regulatory requirementsand will describe a program that can be implemented by local government. It will be presented as a smorgasboard of ideas or a toolbox that addresses the 6 minimum requirements of the NPDES permit. The Stormwater Manual will be the technical resource for BMP's and requirements related to construction site runoff control and post-construction runoff control.

The final organization model that developed during the discussion period was a variation of the model that was presented at the meeting. The Department of Ecology will be the lead agency. They will be assisted in the management of a consultant and overview of policy and technical issues by a steering committee of 10 members. The 10 members will represent the following communities:

- Ecology – Eastern Washington representative – Tom Tebb
- WSDOT – Eastern Washington representative
- City of Spokane – Lloyd Brewer
- Regulated NPDES Phase 2 Cities (Population 10,000 to 100,000) - 2 members selected from 10 Cities Group
- Smaller cities (Population less than 10,000)
- Spokane County - Steve Worley
- Regulated NPDES Phase 2 County
- Non-Regulated NPDES Phase 2 County
- Construction Industry - Association of Homebuilders –Michelle Brich

There will be one subcommittee for the manual and one for the Phase II program that report to the steering committee and directly oversee the production of the two products. The 10 steering committee members will be split in two to form the nucleus of the subcommittees. Interested volunteers from all the groups identified in the focus group feedback will be invited to participate in the subcommittees. A consultant will be selected by Department of Ecology, with assistance from the Steering Committee, to prepare the outline of the products, write the sections and compile the final products for publishing. The consultant will also lead the public involvement process. The consultant will coordinate reviews of the products with the steering committee and subcommittee and resource agencies. Resource agencies will be encouraged to participate in the subcommittees.

Many attendees volunteered for the subcommittees and are identified at the end of this report. Additional volunteers should be solicited, especially among resource agencies, stormwater professionals, industry, and environmental organizations.

Technical and policy issues were discussed. The steering committee and subcommittees working with the consultant should be able to resolve most issues. Others may require consultation with local experts or individuals and agencies with specific knowledge and experience.

The manual issue categories were:
- Hydrology
- Detention and water quality
- Source control BMPs
- Erosion control BMPs and standards
- Policy issues

The Phase II Model Program issue categories were:
- Public education / outreach
- Good housekeeping / pollution prevention
- Illicit discharges
- Policy issues

## Action Items

The action items for the next two months are:
- Finalize membership in steering committee – Ecology and others identified
- Initial meeting of steering committee and further clarification of roles and responsibilities – Ecology to organize
- Ecology advertises and selects a consultant
- Steering committee selects subcommittee
- Ecology and consultant finalize scope of work, budget, schedule, and contract
- Ecology confirms process with resource agencies
- Ecology and EPA invite Tribes to participate in the process

## Introductions, Background, and Meeting Objectives

The meeting began with introductions. See the attached list of attendees.

Tony Barrett of Ecology presented the background and meeting objectives. The reason that we are here today is the following:

- Ecology's decision to go from a single statewide manual to two manuals
- Desire to have a commonly accepted standard for managing stormwater in Eastern Washington
- Need/desire for Eastern Washington communities to influence the development of the Phase II Municipal Permit

**The progress made to date** is meetings with the 10 Cities Group and their development of an interlocal agreement regarding stormwater issues. The 10 Cities Group consists of the cities of Ellensburg, Kennewick, Moses Lake, Pasco, Pullman, Richland, Walla Walla, Wenatchee, West Richland, and Yakima.

WSDOT and Ecology have contracted with David Evans and Associates, Inc. to organize this chartering meeting and previous focus group meetings in order to complete the following tasks:

- Recommended Process and Scope of Work for Manual
- Recommended Process and Scope of Work for Model Phase II Program

The tasks that we hope to accomplish at today's meeting are:

- Form and charter committee(s)
- That will oversee and advise on preparation of the manual
- That will oversee and advise on preparation of Phase II model municipal program
- Form technical subcommittees on manual and model program
- Reach agreement on project objectives, manual and model program

## Project Objectives

Tony Barrett of Ecology also presented Ecology's and WSDOT's project objectives for Eastern Washington Stormwater Management Program

**WSDOT objectives** for the Eastern Washington Stormwater Manual are:

- Establish design protocols - provide transportation designers (both WSDOT and local projects) with a commonly accepted "cookbook" to design stormwater conveyance and treatment facilities for Eastern Washington transportation projects + options for when on-site treatment isn't possible
- Evaluate project impacts and costs - assist planners and project programmers with tools to accurately estimate long-term project costs, particularly row needs
- Evaluate future research needs – which technologies need monitoring and improvements?
- Certainty = regulatory buy off = improved project delivery

**The current laws and "guidances" for stormwater in Western Washington are:**

1. Puget Sound Highway Runoff Program (1991)
2. NPDES MS4 Permit (1995)
3. WSDOT Stormwater Management Program (1997)
4. WSDOT Stormwater Utility Fee And Stormwater Grant Program (1996)
5. Endangered Species Act Requirements – Implementation Letter (1999)
6. Puget Sound Plan Update (1999)
7. Tri-County 4(D) Rule Proposal (1999)
8. Total Maximum Daily Loads (1999 - ???)
9. NPDES Phase 1 Permit NOI and 4th Year Ann. Report (1999)
10. New Ecology Stormwater Manual (2001)
11. Section 401 WQ Certifications
12. NPDES Phase 1 Permit Reissuance - 2001
13. WDFW Hydraulic Project Approvals
14. Revised Highway Runoff Manual (2002)
15. NPDES Phase 2 Rules (2003)

WSDOT would like the manual development resolve the following critical questions:

- Should the Spokane County manual be used as the general boilerplate for the Eastern Washington manual?
- If not, should the manual be narrowly crafted for NPDES Phase 2 compliance? How should six minimum requirements be applied? ESA? HPA?
- How many hydrogeomorphic regions (hyetographs) should Eastern Washington be divided into? Are USGS flood frequency regression regions applicable?
- Which BMPs have the most applicability to Eastern Washington climates? – snow/ice meltoff, summer thunderstorms, rain on snow/freeze events

**Ecology's objectives for the Eastern Washington Stormwater Manual are:**

Develop a Stormwater Technical Manual that will provide commonly accepted standards for the management of stormwater for Eastern Washington. The Manual would address and integrate stormwater management needs under federal and state laws and regulations (Clean Water Act, Safe Drinking Water Act, Endangered Species Act, State Water Pollution Control Act, Hydraulic Project Approval)

**Ecology's objectives for the Eastern Washington Model Municipal Program are:**

Develop a Phase II Model Municipal Stormwater Program for Eastern Washington, with strong local participation and direction. This Model Program would describe a regionally and environmentally appropriate Phase II stormwater program that satisfies federal and state regulatory requirements, and that can be implemented by local government.

**Ecology's objectives for the Chartering Meeting are:**

- To reach consensus on a process for development of the manual and model program - including representation, general scope, and regulatory review, and
- To form appropriate committees to provide leadership and oversight, as well as general policy and technical advice (a coordinating or steering committee and separate technical advisory committees), and
- To solicit volunteers and name people to these committees.

**The attendees' and group's objectives were then discussed and they are:**

- Minimize cost impacts
- Include fiscal analysis
- Not all Eastern Washington jurisdictions have discharge to surface waters (groundwater)
- Vast areas don't need stormwater treatment
- Need to be sensitive to community/project size, small towns, cities
- Lot of the places we discharge to are dry; may be no harm/impact to fish – intermittent, temporal streams
- Modules of Manual and NPDES – Phase II
- Look at lots of existing manuals to start. Spokane not appropriate to all Eastern Washington
- Ecology and EPA desire broad/comprehensive approach to stormwater
- Allow drywells
- Separate deadlines for Phase II and broader manual/issues?
- If manual is too narrow
  - Not useful for all jurisdictions
  - Ecology's needs not met
  - WSDOT's needs not met
- If manual is too broad
  - Too difficult for local government to implement
- Is Phase II/Manual process "finessing" implementation of long-unenforced regulations?
- Who are stakeholders?
- Suggestion to create broad manual with narrow, issue-specific flow chart
  - Allows individuals to choose issues and offers appropriate response (criteria)
- Mechanism is required for updating manual
  - Ecology response: Yes, we need this process.
- Can Phase II be dealt with first? Is Manual as urgent as Phase II?
- Important to know what core requirements are under Phase II, to be addressed in manual

## Feedback from Focus Groups and Proposed Model

Chris Dreps of DEA presented the feedback from three focus group meetings held this spring. The groups and meeting dates and locations were:

- American Public Works Association - Kennewick, February 15
- 10 Cities Group - Yakima, March 9
- Association of County Engineers - Colville, April 19

The reasons WSDOT, Ecology, and DEA met with the focus groups were:

1. to clarify Phase II requirements,
2. for feedback on a process for developing an Eastern Washington Manual And Model Phase II Program that would be commonly accepted,
3. to hear from Eastern Washington stormwater experts, and
4. to plan the chartering meeting

Each focus group meeting had a discussion regarding which organization should be the lead. A broad consensus was that Ecology is the appropriate choice.

1. Ecology has experience coordinating regional Stormwater Management Program,
2. Ecology has oversight responsibilities, and
3. Ecology can potentially procure funding.

Each meeting had discussion about what a **Steering Committee** would be and what the role of such a committee and its members would be.

The general consensus is that there should be a steering committee to support Ecology. The committee should be:

1. A broadly-representative, oversight committee
2. Not the project lead
3. Responsible for review
4. Administrative (scope and budget)
5. Responsible for facilitating communication between working groups
6. Responsible for providing a balance between the 'regulators' and the 'regulated' (county and city representatives considered themselves part of the regulated community)

**Suggested makeup of the steering committee included a representative from:**

1. Department of Ecology
2. Department of Transportation
3. Ten Cities
4. Counties
5. Spokane Region (County and City)
6. Smaller cities
7. Tribes
8. Homebuilders Assn. / Assn. of General Contractors
9. American Public Works Association
10. Natural Resource agencies

Other groups that focus group members thought should be involved in the process were:

1. Special Districts / Irrigators
2. Public Utility Districts
3. Audubon Society / Environmental Groups
4. Cattle / Agriculture Interest Groups
5. Universities

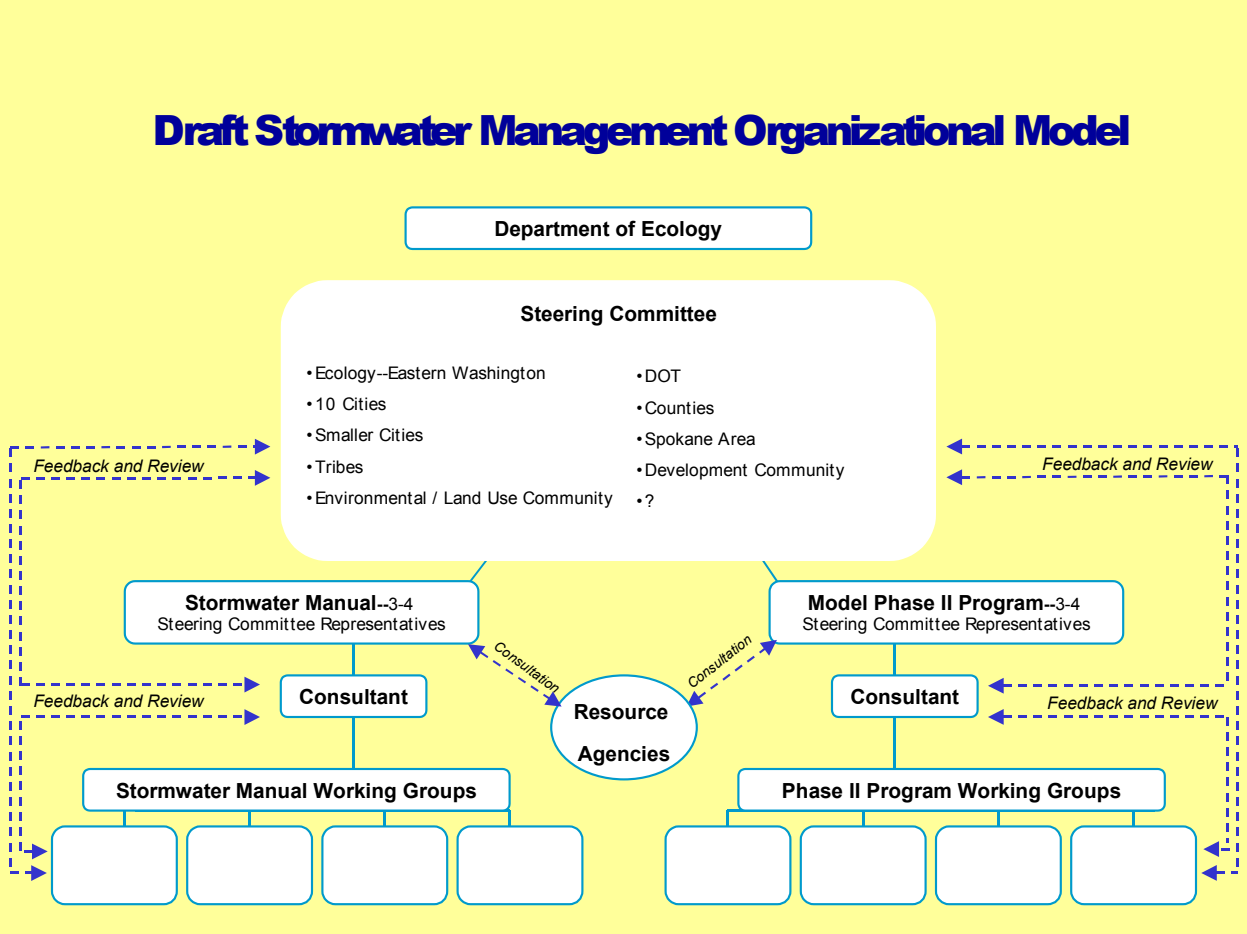
Funding needs and options were discussed at the meetings. Funding possibilities mentioned include:

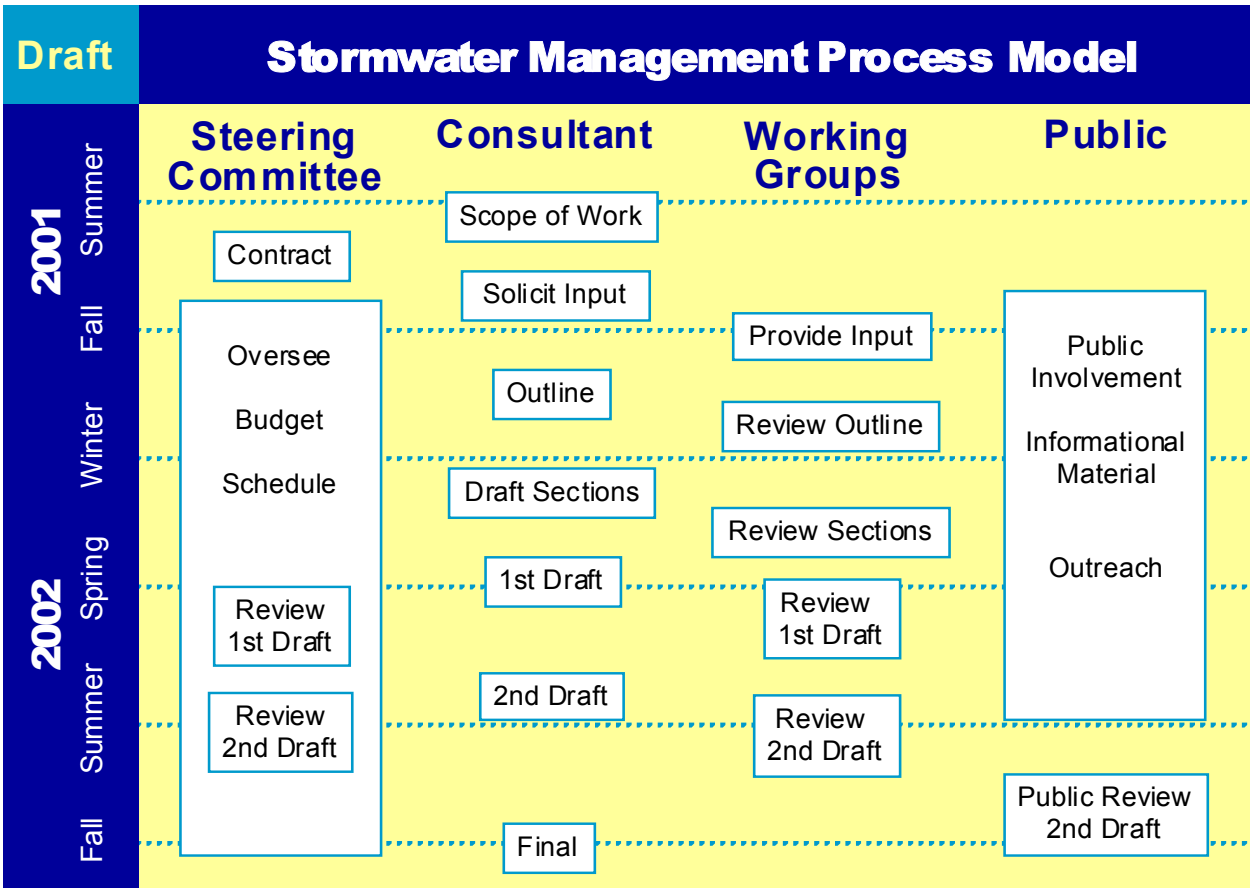
1. State agencies (Ecology, WSDOT)
2. Watershed planning units
3. Regional transportation planning organizations
4. Local funding and in-kind services

Other Funding Issues meeting attendees thought critical were:

1. Ecology's budget request includes funding for the Eastern Washington manual development process.
2. WSDOT may have money in its budget to fund the process
3. Ecology will need strong local support to convince the legislature to support the effort.
4. How much will the process cost?

DEA prepared a draft model based on these focus group meetings and preliminary models developed in them. Objectives that DEA considered when preparing the draft model were simplicity, clear roles and responsibilities for the committees, and clear lines of communication between the committees, DOE, and consultant. Chris Dreps presented the following organization and process models. Note that the organization model was revised during the meeting. The final model is at the end of this summary.






The following is the discussion on these models, which focused primarily on the steering committee makeup and the technical groups.

- Clarify how steering committee works with Ecology
- Suggestion for agricultural group – Washington Association of Wheat Growers
- RTPOs (Regional Transportation Planning Organizations) could be source of federal funding
- Broad scoping questions presented earlier are critical to model organization
- Members of steering committee should be those that have financial obligation to implement requirements
- Should the manual have a narrow or broad focus?
- Make modular manual
  - NPDES Phase II requirements at a minimum
  - ESA, fish increasing standards if required
- Concern about underground injection wells (UIC) and timeline changes
- Manual and model program can feed to changes in other regulations such as UIC
- Clarify where consultation with resource agencies will occur in process
- Concern about groundwater contamination – detention pond in western Washington high rainfall vs. low rainfall infiltration well; equal science
- More working groups
- How does this get funded?
- Is a manual needed?
- How does stormwater manual interface with model program?

At this point in the discussion, Ross Dunfee of Benton County and Chris Waarvick of the City of Yakima presented a revised version of the organization model with a larger steering committee of around 10 people and one subcommittee for the manual and one for the Phase II program. The 10 steering committee members would be split in two to form the nucleus of the subcommittees. Interested volunteers from all the groups identified in the focus group feedback would be invited to participate in the subcommittees. Other points discussed were:

- A steering committee representative member on each subcommittee.
- There could be positions on steering committee that do not have direct involvement in subcommittee.
- Important to involve environmental groups/tribes in subcommittees.
- Working groups can be formal or informal (part of subcommittee) – review consultants' work.

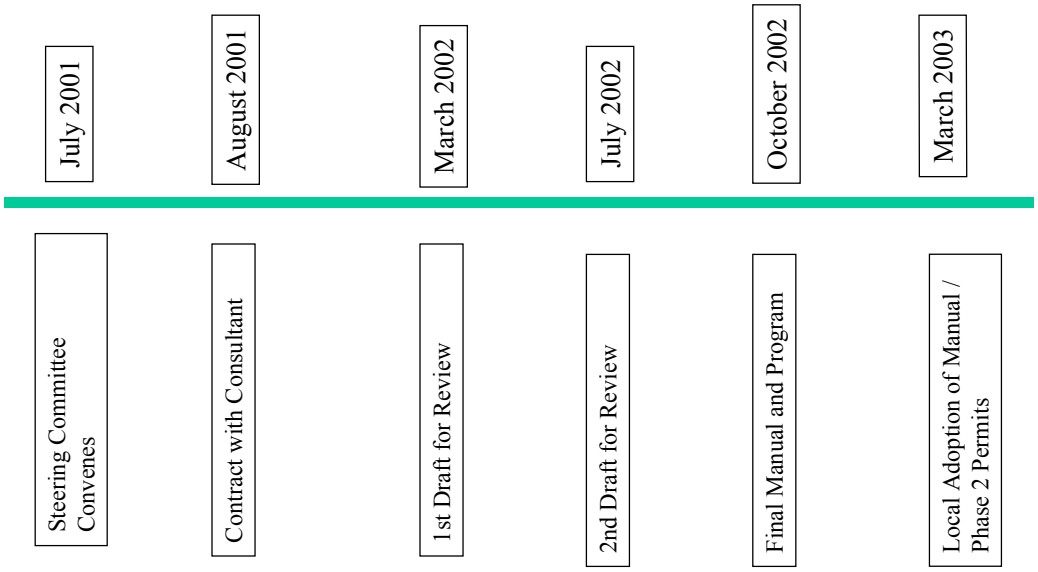
The attendees were asked to consider this revised model and whether it would meet the program objectives. After discussion regarding the manual and Phase II content the model will be revisited and finalized at the end of the day.

## Funding and Timeline

Tony briefly presented a funding summary. Ecology has submitted a budget request for planning and implementing the Phase II permit program and completing an eastern Washington Manual. The Senate and House budgets both provide some funding, though the amount is considerably less than Ecology's estimate of what is needed. Funding would be for one staff person at DOE to lead the process and for consultant fees which are estimated to be around $350,000 for both products. An important funding source will be in-kind contributions from the local agencies involved in the process. This will include committee membership, reviewers, production of materials, and hosting of meetings.

Pat presented the initial timeline that follows. It is noted that the timeline is ambitious but it is based on being able to complete the NPDES Phase II applications in March 2003.

# Proposed Timeline




## Technical and Policy Issue Categories for the Manual and Model Program

DEA prepared nine categories of technical and policy issues that would need to be addressed in this project. Attendees were given the opportunity to add to these issues. Then the attendees were divided into groups to discuss how the manual or model program steering subcommittee and consultant would approach each of the issues.

Breakout Groups were asked to answer the following four questions for each of the issues.

1. Define subtopics within issue category and what needs to be done to address them
2. Identify the "players" to be involved in the issues.
3. Design committee work program to address these issues.
4. Revisit timeline and resource requirements in light of discussion.

The breakout groups then presented their results to the entire group. Any discussion that followed is included with the notes from each of the breakout groups.

## 1. Stormwater Manual Technical Issues – Hydrology

**Who? City/County/Public:**
Ecology, WSDOT, consultants, other natural resource agencies as appropriate, etc.

**How? Documentation:**
Who does it go to?
Who is responsible?
What kind of info is needed, etc.
How are decisions made?

**Timeline and Resources**
Bite-sized approach, building on each step towards the goal

**Design Storm For Detention**
- Is detention always required?
  - Develop criteria
  - Water quality impacts: rural vs. urban
- What storm design is appropriate? Depends on:
  - Receiving water body
  - Geographic siting (desert vs. forest)
  - Climate

**Design Storm for Water Quality**
Up to what size of storm should **NOT** be regulated?
First flush → Run off → carries large percentage of pollutant
Conveyance systems → currently "flashy" hydrographs

**Conveyance Design**
Flow rate vs. volume based

**Minimum Thresholds**
What amount of impervious surface trigger the guidelines

**Rain on snow events**
What is a rain on snow event?
What or how can this be defined? Do we need to?
Not feasible – may be covered elsewhere (the group felt that this would not be useful to define)

**Snow Run-Off Without Precipitation**
Snowmelt run-off
Snow removal
How are cities vs. DOT or others handling this issue?
Sand, salt → impacts to water quality, etc.

**Detention Facilities Design Criteria**

**BMP Criteria**
Costs (life cycle as well)
Maintenance/construction vs. environmental effectiveness
Safety vs. environmental

**BMP for WINTER Road Protection/Safety**
Sand/salt

**Groundwater impacts**
How can we develop an understanding or recognition of pollutant transport in different locations.
Drywell vs. retention

All group discussion added the following:

- Local governments can identify experts
- Use simpler, more focused models than Western Washington
  - Continuous flow not applicable
- Look at WSU labs

## 2. Stormwater Manual Technical Issues - Detention and Water Quality BMP's

The issues are:

- Ponds
- Swales
- Vaults
- Dryland options
- Infiltration
- Drywells
- Evaporation ponds
- Constructed wetlands
- Proprietary (catch basin inserts, filtration)
- Media filters

The breakout group discussion was:

**What:**

- Thresholds/triggers to require BMP's
  - (BMP's should not degrade background levels)
- Develop BMP list
- Define purpose of BMP's
- Categories (quality vs. flow control)
- Design standards
- Construction and inspection
- Maintenance and monitoring

**Who:**

- Project designers
- Regulators (other rules makers)
- Regulated entities
  - WSDOT
  - Counties/cities
  - Development (AGC) community
- Operation and maintenance staff, supervisors

**How:**

- *Initial meeting with consultant
- Categories of focus for BMP's (i.e., water quality, flow control)
- Develop list of BMP's to address those issues
- Define thresholds or triggers
- Consultant writes sections / 1st draft
- *Meet with consultant
- Review by committee
- Committee comments (via e-mail/phone)
- Consultant writes draft for submission to steering committee/others
- *Final review by committee

**Timeline:**

- Use phone and e-mail as work develops
  - Schedule meeting
- Keep numbers of meetings down
  - Initial meeting on issues
  - 1st draft
  - Comments - final draft

All group discussion added the following:

- BMP's – prioritize for 2002
- Stormwater BMP's
  - Process to review and approve alternative BMP's

### 3. Stormwater Manual Technical Issues - Source Control BMP's

The issues are:

- Specific pollution sources
- Spill emergencies
- Pest management
- Lawn/vegetation management
- Roadside maintenance/road maintenance
- Deicing/traction
- Dust control
- Street sweeping/catch basin cleaning
- Unpaved street/alley maintenance
- Swimming pools/chlorinated use/residential use
- Hobby farms
- Eastern Washington groundwater management area
- Construction sites
- Industry
- Special events (car washes, farmers' market)
- Household hazardous waste

**The players are:**

Schools, conservation district, applicants, emergency response, homeowners, parks dept. landscape companies, road maintenance crews, contractors, water utilities, landfills, collection facilities, local authority, legal

**Committee work program**

- Copy others where applicable
- Protect us!
- Focus on coordination with others
- "Public Participation"
- Create ordinances

**Timeline and resource requirements**

- Use existing materials first
- $$$
- Staff and equipment
- Required by end of 2002
- Legal authority

## 4. Stormwater Manual Technical Issues - Erosion Control BMP's and Standards

**The Issues Are:**

- Sediment Traps
- Filter fence
- Wind erosion
- Construction practices
- Minimum thresholds - define
- Polyacryamide
- Soil types (Infiltration ratios)
- Design event. 6-month / 25-yr / 10-yr /continuous flow / Western Washington
- Periodic update to include new standards
- Do not emulate size of Western Washington manual (900 pages)

**The Players Are:**
DOT / Ecology / locals
Industry standards
Homeowners Association
Regulatory agency
Agriculture /forest
NRCS / Conserv. Dist. / SCS

**Minimum Thresholds**
- What are we trying to protect?
- Acceptable measurement methods and when applicable
- Need list of BMP's
- Use and review existing (don't reinvent the wheel) (Western Washington manual/Highway Runoff Manual/Local)
- Identify appropriate use or application
- "Allow or equals" (Financial incentive)
  - (Alternative methods) - method to include new standards
  - (Design deviations)

**BMP's**
- Documentation
  - Type of work
  - BMP's used
- Maintenance of BMP's
  - Temp/permanent
  - Who/how/$
- Timeframe for use
  - Before/during (temp) / after (permanent)
- Flexible for different conditions
  - Site / physical / weather

- Reality check
  - Appropriate for project
  - Size / cost / benefit
- Enforcement?
  - Who does? – ecology / locals / owner / WSDOT
    - How?
  - Incentives for compliance
    - Reduced fees

**Work Program**

- What are we trying to protect? Define.
- Compile information and source
- Prioritize to support Phase II implementation
- Outreach
- Identify additional stakeholders needed to complete manual
- Tech expertise / regulations / standards
- Develop reasonable expectations and objectives
- Operating procedure

**Timeline and Resources**

- Finished section by end of 2002 for use by Phase II
- Consultant with Eastern Washington perspective
- $ to complete Fed/state/local/private
- Set milestones

## 5. Stormwater Manual Policy Issues

**State and Federal laws – The Manual should address State and Federal laws, including:**
- HPA
- 401
- SEPA/NEPA
- MEP/AKART
- UIC

**ESA issues**
Give services option to review

**Regional differences**
- Rural vs. urban
- Wet vs. dry
- Where stormwater is discharged
- Dispersion as flow control option

**Funding – manual development**
- Cash – DOE, DOT (look for others – RTPO, EPA, etc.)
- Local government in-kind contribution

**Cost of BMP's**

**Groundwater Protection**
- What treatment is required?
- Monitoring required?

**Permitting**
- Clarify process /structure (state and federal law)

**Equivalency of Alternate Manuals**
- Core elements of manual that are necessary
- Who approves the manual?

**Compliance with Washington UIC Regulations**

**How much is needed?**

**Retrofit**
Manual should address existing stormwater facilities where there is redevelopment.

**Alternative/New Technology Review/Approval**
The Manual should address review and approval of alternative and new technology

## 6. Phase 2 Model Program Technical Issues – Public Education/Outreach

**Materials**

- Library
- Materials and resources for public education and outreach available
  - Broad applicability, need local customization
- Would like to see as materials are collected; some qualification assessment of public effectiveness
- Explore option for ongoing public information clearinghouse (library of materials)
- Suggest MSRC as librarian

**Typical program**

- Committee/contractor develop **MODEL** public education and outreach program for Phase II
  - Model program need to define audience
    - Elected/regulated/general public
    - Geographic
- Explore options for partnership such as
  - Regional public education and outreach programs to pool personnel, etc. (TV, Radio)

**Resources and timeline**

- Cities, counties, elected, regulated, the usual suspects
- Timeline – model by March 2003; ongoing collection of materials

**Partnerships**

- Watersheds, RTPO's, AWC, etc.

**Evaluate Effectiveness**

**Define audience**

- Elected vs. general
- Geographic differences

## 7. Phase 2 Model Program Technical Issues - Good Housekeeping/ Pollution Prevention

**Definition**
- Storm drain system cleaning, including CB cleaning and pipe network
- Street sweeping
- Weed control
- Ditch cleaning
- Fertilizers/pesticides (re golf courses, R/W)
- Housekeeping practices at maintenance facilities

**Issues**
- Frequency
- Inspection
- Record keeping
- Waste disposal, including testing to track pollutant load
- What standard are we trying to meet?
- Alternatives to chemicals available (fertilizer and deicers); at what cost?
- Employee education

**Players**
- Maintenance staff
- DOE

**Maintenance BMP's**
SD system cleaning
CB cleaning
Residuals (where do they go?)
Relationship to clean air regulations

**Street Sweeping**
Frequency

**Pesticides and Fertilizer**
Parks, golf courses, R/W
Are these really a significant problem? How about a more scientific approach to fertilization.

**Fleet Vehicle Yards**
- O&M manual
- Employee education
- Spill control and education
- Washington racks

**Snow and Ice Control**

**Committee Work Program**

- Must know what the goals are first. Will the goals be qualitative? Or Qualitative?
- Suggest narrative standards in absence of Eastern Washington data.
- Committee will gather relevant data

**Timeline**

Six months

All group discussion added the following:

- Could be expensive for local governments
- BMP's need fiscal analysis
- Concern about concentrations of disposed materials

## 8. Phase 2 Model Program Technical Issues - Illicit Discharges

**System Mapping/Inventory**
1. Agree on need
2. Many have it now
3. Need to have updates
4. Know source and discharge
5. Players - local agency / DOT

**Inflow/Infiltration Testing and Standards (groundwater)**
Testing for illicit discharge = ???
1. Assumes a storm sewer system to a surface water
2. Not the norm in Eastern Washington
3. Players - local agency

**Drywell Testing**
1. Education about dumping stuff (?) into drywells
2. Retrofit will come later, not now
3. Retrofit with new construction/redevelopment

**Education**
Education specific to illicit discharge
1. Reduce illegal dumps
2. Where/how to dump
3. Develop recycle center

Design committee work program = Ross factor

All group discussion added the following:
- Illicit Discharges include connection to all parts of the storm system

## 9. Phase 2 Model Program Policy Issues

**Implementation Schedule**
- Who: Steering committee
- How: Phase II Subcommittee
- When: Completed / submitted March 10, 2003

**Local Adoption Requirements**
- Who:
  - Local agencies
  - Local development community
  - Public process
- How: By ordinance
- When: After March 10, 2003

**Regional Differences**
- What:
  - Rainfall intensities
  - Soils
  - Topography
  - Aquifers
  - Economic
  - Densities
  - Hydrographs
  - Jurisdictions
- Who: Model program should address differences
- How: Phase II working group (subcommittee)
- When: Early in process

**Funding**
- **EPA**
- **DOE**
- DOT

**Combined Applications**
- What: Program identifies process
- Who: Local MS4's make determination at time of application, whether combined or not.
- How: Identify details of joint application
- When: Same as implementation schedule

**Correction of Existing Conditions or Problems**
- What: Mapping of system
- Who: Local agencies
- How:
  - $ Federal / grants / misc.
  - Redevelopment

- When:
  - Steering subcommittee during development
  - Local agency capital programs

**WA UIC Reg. Revision Process**

- Who:
  - DOE
  - Legislature
- How:
  - State/local partnership
  - Addressed in manual
  - Research
- When:
  - Independent of Phase II
  - Proceed for input into manual

**What does a model program look like?**

- What:
  - Choice of options
  - Smorgasbord
- Who:
  - Consultant
  - Steering committee
- How: Through scope of work

**What is a minimal "local program?"**

- How much is enough of the six requirements?
- Limit cost impacts
- Setup basic Model Program
- Smorgasbord
- Get buy in

## Final Organization Model

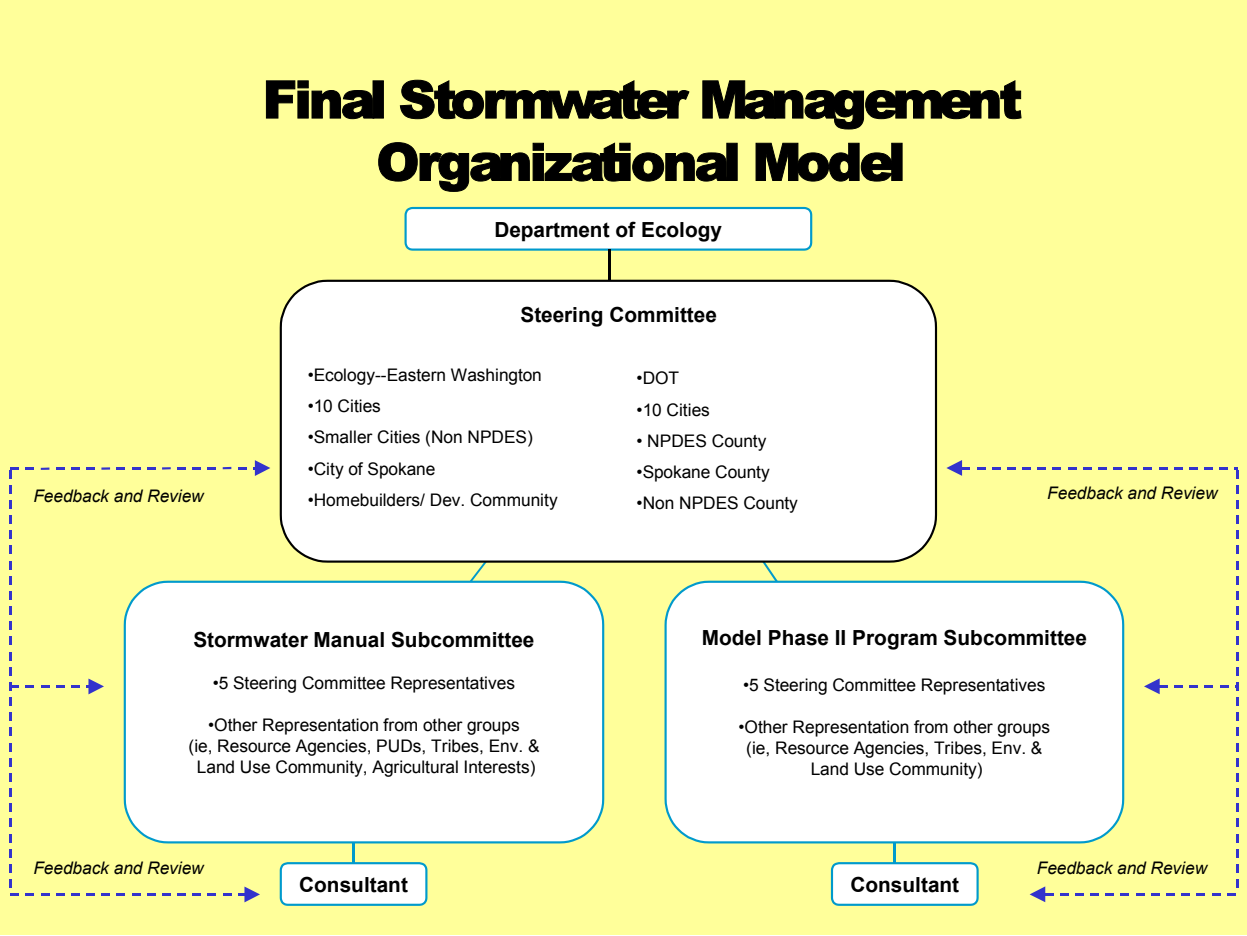
The group had the following discussion on the revised organization model.

- Steering committee
  - Should it include?
    - Tribes
    - Environmental groups
    - Subcommittees
    - Public
  - Ecology to invite Tribes to participate and consult directly

EPA is administering NPDES program for Tribes and will coordinate with Tribes

- Where do resource agencies and services fit in?
  - Subcommittees?
    - Need to be invited

The final organization model is as follows: There is no change to the process model other than the working groups are now named subcommittees. It will be to the discretion of the subcommittee to form technical working groups if needed.




**Final Steering Committee Members**

The Steering Committee members were identified as the following. If a person was not identified then a person was identified as the responsible party for completing the selection by the specified date.

- DOE – Eastern Washington – Tom Tebb
- 10 Cities (2 members) – Chris Waarvick will advise selection by 6/12
- WSDOT – Ed Molash will select by 6/12
- Smaller cities – Jim Seitz AWC to select by 6/25
- WA Associates of Counties (2 members) – select by Walt Olsen; John Knutson of Yakima Co volunteered 6/19 as NPDES county
- City of Spokane – Lloyd Brewer – confirmed 6/19
- Spokane County - Steve Worley
- Association of Homebuilders – Mark Richard to confirm by 6/20 (Michelle Brich from the Tri-cities confirmed she will be the Steering Committee rep;)

## Volunteers for the NPDES Phase II Program Subcommittee

Ross Dunfee, Benton County
Steve Plummer, Kennewick
Michael McShane, Richland
John Knutson, Yakima County
Lars Hendron, City of Spokane
Lucy Peterschmidt, County of Spokane
Mark Richards, Spokane Home Builders

## Volunteers for the Stormwater Manual Subcommittee

Gary Nelson, Spokane County
Mike Deason, Leavenworth
Bob Breshears, Lincoln County
Steve Plummer, Kennewick
Gary Beeman, WSDOT South Central Region
Sandra Levey / Randy Nash, Grant County PUD
Nancy Aldrich, City of Richland
Don Gatchalian, Yakima County
Steve Hansen, City of Spokane
Paula Cox, Chelan County
Paul Gillaland, City of Harrington
Greg Lahti, WSDOT Eastern Region
Ron Anderson, Central Washington Home Builders Association